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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/967,310	09/28/2001	Kiyoshi Yamaura	112857-302	5205
	90 11/01/2004		EXAMINER MERCADO, JULIAN A	
BELL, BOYD P. O. BOX 1133	& LLOYD, LLC			
CHICAGO, IL		· ·	ART UNIT	PAPER NUMBER
			1745	
			DATE MAILED: 11/01/2004	Į.

Please find below and/or attached an Office communication concerning this application or proceeding.

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Supplemental Supplemental	Application No.	Applicant(s)	
Supplement	09/967,310	YAMAURA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Julian Mercado	1745	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is s	this application. If not included inication will be mailed in due course.	THIS initiative
1. This communication is responsive to			
2. The allowed claim(s) is/are 1-3,5-7 and 17.			
3. \boxtimes The drawings filed on <u>28 September 2001</u> are accepted by	the Examiner.		:
 4. Acknowledgment is made of a claim for foreign priority unall	been received. been received in Application cuments have been received of this communication to file ENT of this application. itted. Note the attached EXA es reason(s) why the oath or t be submitted. on's Patent Drawing Review can Amendment / Comment or Amendment / Comment or Amendment / Comment or Commen	n No in this national stage application from a reply complying with the requirement MINER'S AMENDMENT or NOTICE of declaration is deficient. (PTO-948) attached in the Office action of a 1.121(d). RIAL must be submitted. Note the	nts
attached Examiner's comment regarding REQUIREMENT F	SIT OF BIOLOGICAL MATE	RIAL must be submitted. Note the LOGICAL MATERIAL.	
Attachment(s)	, m.,		
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	ormal Patent Application (PTO-152)	
,	6. ☐ Interview Su Paper No./N	Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	B), 7. ☐ Examiner's A	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance	
of Biological Material	9. 🛛 Other 💆	9-90C	
			i

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DETAILED ACTION

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3 12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Tom Basso on October 25, 2004.

The application has been amended as follows:

- 1. Claim 1 has been replaced with the following:
 - --1. An electrochemical device comprising:

a gas diffusion electrode comprising a fibrous carbonaceous material and a catalytic layer formed on at least a portion of a surface of the fibrous carbonaceous material including a first surface region and a second surface region, wherein at least a portion of the catalytic layer formed on the first surface region is lesser than at least a portion of the catalytic layer formed on the second surface region; and

a proton conduction unit in contact with the first surface region of the gas diffusion electrode.--

- 2. Claim 4 has been canceled.
- 3. In claim 5 at line 1, "claim 4" has been changed to --claim 1--.
- 4. In claim 5 at lines 1-2, "fibrous material composed of carbon" has been changed to

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- --fibrous carbonaceous material--.
- 5. In claim 6 at line 1, "claim 4" has been changed to --claim 1--.
- 6. In claim 6 at lines 1-2, "fibrous material composed of carbon" has been changed to --fibrous carbonaceous material--.
- 7. Claims 8-16, drawn to a non-elected invention without traverse, have been canceled.
- 8. Claim 17 has been replaced with the following:
 - --17. An electrochemical device, comprising:

a gas diffusion electrode comprising a fibrous carbonaceous material and a catalytic layer formed on at least a portion of a surface of the fibrous carbonaceous material, a proton conducting unit contacting the gas diffusion electrode such that at least a portion of the fibrous carbonaceous material is embedded within the proton conduction unit, wherein at least a portion of the catalytic layer is formed on the embedded portion and at least a portion of the fibrous carbonaceous material that is not embedded within the proton conducting unit, wherein an amount of the catalytic layer is less in the embedded portion of the fibrous carbonaceous material than in the portion of the fibrous carbonaceous material that is not embedded within the proton conduction unit.--

Remarks

The "Examiner's Amendment" section of this Office action replaces the one sent

September 9, 2004 in order to correct typographical errors by the examiner. Specifically, the

dependency of claims 5 and 6 have been amended by this examiner's amendment to depend from

claim 1.

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Allowable Subject Matter

Claims 1-3, 5-7 and 17 are allowed for the reasons set forth in the prior Office action sent September 9, 2004.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

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